ELECTRONIC TUBE REFERENCE

8118

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TETRODE-TETRODE

Quick-heating internally neutralized twin tetrode designed for RF power amplification and frequency multiplication in mobile or fixed equipment. Two physical tetrode sections provide compact paired RF operation.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	16 V / 4.25 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Common cathode	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode

TRANSCONDUCTANCE	0.0025 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM GRID DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	80 mA

Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.

SECTION2 Tetrode	
TRANSCONDUCTANCE	0.0025 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM GRID DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	80 mA
Second identical physical tetrode section; added to align rows with SectionCount.	

> The Telefunken 8118 is a quick-heating, internally neutralized twin tetrode for RF power amplification and frequency multiplication in mobile or fixed equipment.

SOURCE OPERATING CONDITIONS

1953 Amperex

SOURCE PDF

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1953 AMPEREX

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**2500 µS**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Plate Voltage	**600 V**	—
Maximum Screen Voltage	**300 V**	—
Maximum Plate Dissipation	**10 W**	—
Maximum Screen Dissipation	**1.5 W**	—
Maximum Grid Dissipation	**0.5 W**	—
Maximum Cathode Current	**80 mA**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1959 Telefunken

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1959 TELEFUNKEN

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater Voltage	**16 V**	—
Heater Current	**4.25 A**	—
Heater Warmup Time	**0.5 s**	Maximum

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Intended Frequency	**500 MHz**	—
Transconductance	**25000 uS**	Each section

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